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Subject: Re: [dm-devel] Re: dm: bounce\_pfn limit added  
Posted by [Alasdair G Kergon](#) on Wed, 31 Oct 2007 02:01:33 GMT  
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On Tue, Oct 30, 2007 at 11:26:17PM +0000, Alasdair G Kergon wrote:  
> ) DM doesn't need to bounce bio's on its own, but the block layer defaults  
> ) to that in blk\_queue\_make\_request(). The lower level drivers should  
> ) bounce ios themselves, that is what they need to do if not layered below  
> ) dm anyways.

So currently we treat bounce\_pfn as a property that does not need to be propagated through the stack.

But is that the right approach?

- Is there a blk\_queue\_bounce() missing either from dm or elsewhere?  
(And BTW can the bio\_alloc() that lurks within lead to deadlock?)

Firstly, what's going wrong?

- What is the dm table you are using? (output of 'dmsetup table')
  - Which dm targets and with how many underlying devices?
- Which underlying driver?
- Is this direct I/O to the block device from userspace, or via some filesystem or what?

Presumably you've shown the problem goes away when the dm device is removed from the stack.

What if you swap in alternative dm targets, e.g. if it's linear, try multipath (round-robin, one path)?

Alasdair

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